



**Dam Safety Society**  
**DAM SAFETY 2025**  
**Programme**

<b>20<sup>th</sup> March 2025</b>	
10.00 – 11.00 hrs	<b>Opening Ceremony</b>
11.00 – 11.30 hrs	<b>Tea Break</b>
11.30 – 13.00 hrs	<p style="text-align: center;"><b>Plenary Session</b></p> <ul style="list-style-type: none"> <li>• Recent Advances in Hydrological Safety Evaluation of Dams – <i>N.K Goel</i></li> <li>• Advancing Dam Safety: Modern Inspection Techniques and Internal Condition Assessment – <i>Dr Sanjay Rana</i></li> <li>• Next Steps for Long Running Dam Safety Programme – <i>A.B. Pandya</i></li> </ul>
13.00 – 14.00 hrs	<b>Lunch</b>
14.00 – 15.30 hrs	<p style="text-align: center;"><b>TS 1 : Dam Health Assessment</b></p> <ul style="list-style-type: none"> <li>• Unveiling The Unknown-Rov Inspection Of Flooded Tunnel - A Case Study - <i>Kannappa Palaniappan, Akhil and Ashok kumar Manisery</i></li> <li>• Geotechnical Investigation carried out to study the causes for substantial seepage of earthen embankment between LS 350m and 500m of Nanganjiyar Dam - <i>K. Lavaniya, T. Kanimozhi and N. Suresh Babu</i></li> <li>• Earthen Dam Failure Investigations: Correlating Geophysical Methods with Geotechnical Ground Truthing for Enhanced Reliability - <i>Dr. Yogini Deshpande, Sandip Deshpande &amp; Mahesh Mandape</i></li> <li>• Integrated Geotechnical and Geophysical Investigations for Health Assessment of Embankment Dams: A Case Study of Musi Dam - <i>Veerla Sunitha</i></li> </ul>
15.30 – 16.00 hrs	<b>Tea Break</b>
16.00 – 17.30 hrs	<p style="text-align: center;"><b>TS 2: Dam Rehabilitation Techniques</b></p> <ul style="list-style-type: none"> <li>• Latest Techniques In Improving Watertightness In Dams – Geomembrane Sealing System - <i>Jagadeesan Subramanian</i></li> <li>• Chemical Grouting To Arrest Water Loss Through Aging Dams Using Sunanda Make SungeogROUT - <i>S. K. Manjrekar</i></li> <li>• High-Performance Concrete For Repair of Sluice Spillway of Nathpa Dam – <i>Raman Revati and Jaswant Kapoor</i></li> <li>• Innovative Corrosion Protection System To Gates Of Middle Vaitarna, Barvi &amp; Ransai Dams - <i>S. K. Manjrekar and J. K. Kulkarni</i></li> </ul>

	<ul style="list-style-type: none"> <li>Feasibility study of suitable Grouting technique for seepage Remediation in Sikaser Dam of Chhattisgarh – Shreya Rathod and Akansha Tyagi</li> </ul>
19.00 – 20.30 hrs	<b>Cultural Evening</b>
20.30 hrs	<b>Conference Dinner</b>
<b>21<sup>st</sup> March 2025</b>	
9.30 – 11.00 hrs	<p style="text-align: center;"><b>TS 3: Dam Health Monitoring</b></p> <ul style="list-style-type: none"> <li>Presentation based on Site Specific Case Study on “Optimizing Seismic Monitoring Systems for enhancing Safety at Tehri Dam: A Successful – <i>Vinod Tamaar</i></li> <li>Presentation based on Case Study “Revival of Existing Piezometers in Eathen Dam” – <i>Nirmit Chokshi</i></li> <li>Baselining the condition and progressing to efficient Dam Monitoring Method by creating Digital Portfolio using Robotic and AI-based based Automated Defects Mapping Technology – <i>Tushar Gupta</i></li> <li>Safety Inspections of Nathpa Dam – <i>Jaswant Kapoor</i></li> </ul>
11.00 – 11.30 hrs	<b>Tea Break</b>
11.30 – 13.00 hrs	<p style="text-align: center;"><b>TS 4: Hydrological Safety of Dams</b></p> <ul style="list-style-type: none"> <li>Design Flood Review and Managing Revised Floods – <i>Arnab Bardhan and Manish Raj</i></li> <li>Dam safety assurance under climate change – <i>Rajib Chakraborty</i></li> <li>Increasing Dam Safety against floods: Rehabilitation of a dam with Fusegates in USA, case study - <i>Subramanian Jagadeesan and Evangelios Rampia</i></li> <li>The Purpose of the Right Dam Control Valves for Precise Regulation of Water Levels and Flow Rates – <i>Peter Thomson</i></li> </ul>
13.00 – 14.00 hrs	<b>Lunch</b>
14.00 – 15.30 hrs	<p style="text-align: center;"><b>TS 5: Panel Discussion – Issues &amp; Challenges in Dam Health assessment, Monitoring and Rehabilitation</b></p> <p>Panelists: S. S. Bakshi, N. K. Goel, Vinod Tamaar, Akansha Tyagi, Jaswant Kapoor, Sanjay Rana</p>
15.30 – 16.00 hrs	<b>Tea Break</b>
16.00 – 17.30 hrs	<p style="text-align: center;"><b>TS 6 : Implementing Dam Safety Act</b></p> <ul style="list-style-type: none"> <li>Importance of Dam Safety in India and Dam Safety Act 2021 – <i>Abhishek</i></li> <li>Challenges in Implementation of Dam Safety Act in India = <i>Vijai Saran</i></li> <li>Measures and compliance of Dam Safety aspects in NHPC = <i>Rakesh Kumar Dubey and Thota Venugopal</i></li> </ul>

	<ul style="list-style-type: none"> <li>• Dam Safety: Priority Areas: WAPCOS experience in Dam Engineering - <i>Amitabh Tripathi, P. Sumana and SS Walia</i></li> <li>• Re-energizing Power Plants through Renovation, modernization, and life extension of hydroelectric projects Measures and compliance of Dam Safety aspects in NHPC – <i>Shrish Dubey, Prashant Jaiswal and Suchismita Das</i></li> </ul>
<b>22<sup>nd</sup> March 2025</b>	
9.30 -11.00 hrs	<p style="text-align: center;"><b>TS 7: Latest Technologies for Dam Safety</b></p> <ul style="list-style-type: none"> <li>• Integrating Dam Safety Aspects in Pumped Storage Projects for Sustainable Hydropower Development: A GIS-Based Approach – <i>S.S. Bakshi, Sajal Mittal and Vikash Yadav</i></li> <li>• Advanced geomembrane systems in underwater rehabilitation - <i>G. Vaschetti, A. Jackson and Subramanian Jagadeesan</i></li> <li>• Application of Environmental tracers in Reservoirs Leakage/Seepage studies – <i>Gopal Krishan, S D Khobragade and Shailesh Kumar</i></li> <li>• Innovative Technologies in Dam Safety and Rehabilitation of Tanakpur Barrage-a case study – <i>Shrish Dubey, Prashant Jaiswal and Virendra Kumar</i></li> <li>• Autonomous Technology for Dam Safety, Maintenance and Rehabilitation – <i>Sanjeev Afzulpurkar, Alok Mukherjee, Raja Mahubani and Sunny Sebastian</i></li> </ul>
11.00 – 11.30 hrs	<b>Tea Break</b>
11.30 – 13.00 hrs	<p style="text-align: center;"><b>TS 8: Assuring Dam Safety</b></p> <ul style="list-style-type: none"> <li>• Risk analysis of the Koyna dam using reduced order model and machine learning - <i>Chandan Bharti, Varsha P &amp; Debraj Ghosh</i></li> <li>• A few concepts of Geology applicable to dam safety - <i>Mandapalli Raju</i></li> <li>• Lessons Learnt from Dam Failure Incidents – <i>Gyanendra Sharan, Shashikant Priyadarsh, Anshul Gautam, Kushboo Yadav, Saumay Singh, Tanya Rai, Akansha Agrahari and Sunil Kumar Mishra</i></li> <li>• Comoe Dam Lateritic Foundation Treatment – <i>Ahmed Chairabi</i></li> <li>• Framework for Developing an Effective Early Warning System for Dams in Compliances to Dam Safety Act 2021 in India – <i>Vijay Dubey</i></li> </ul>
13.00 – 14.00 hrs	<b>Lunch</b>
14.00 hrs	<b>Departure</b>